L Numb r	Hits	Search Text	DB	Tim stamp
-	0	("(barrier same (divalent r b ryllium or	USPAT;	2003/06/05
		magnesium or calcium or strontium or	US-PGPUB;	09:55
		barium or ca or mg or sr or be or ba))").PN.	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	0	("(barrier and (divalent or beryllium or	USPAT;	2003/06/05
		magnesium or calcium or strontium or	US-PGPUB;	09:55
		barium or ca or mg or sr or be or ba))").PN.	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	9453	(barrier same (divalent or beryllium or	USPAT;	2003/06/05
		magnesium or calcium or strontium or	US-PGPUB;	09:56
		barium or ca or mg or sr or be or ba))	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
•	1470	(barrier near5 (divalent or beryllium or	USPAT;	2003/06/05
	i	magnesium or calcium or strontium or	US-PGPUB;	09:57
		barium or ca or mg or sr or be or ba))	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
•	0	((dielectric or insulating) same copper	USPAT;	2003/06/05
		same (barrier near5 (divalent or beryllium	US-PGPUB;	09:57
İ		or magnesium or calcium or strontium or	EPO; JPO;	
		barium or ca or mg or sr or be or ba))).clm.	DERWENT;	
			IBM_TDB	
•	24	((dielectric or insulating) same copper	USPAT;	2003/06/05
		same (barrier near5 (divalent or beryllium	US-PGPUB;	09:58
		or magnesium or calcium or strontium or	EPO; JPO;	
		barium or ca or mg or sr or be or ba)))	DERWENT;	
			IBM_TDB	
'	15	((dielectric or insulating) near10 copper	USPAT;	2003/06/05
		near10 (barrier near5 (divalent or beryllium	US-PGPUB;	10:00
		or magnesium or calcium or strontium or	EPO; JPO;	
	İ	barium or ca or mg or sr or be or ba)))	DERWENT;	
	_		IBM_TDB	
·	2	((dielectric or insulating) near10 copper	USPAT;	2003/06/05
		near10 (barrier near5 (oxide or dioxide)	US-PGPUB;	10:11
		near5 (divalent or beryllium or magnesium	EPO; JPO;	
		or calcium or strontium or barium or ca or	DERWENT;	
	أام	mg or sr or be or ba)))	IBM_TDB	
·	6	(silicon adj (oxide or dioxide)) near2 (dope	USPAT;	2003/06/05
		or doping or doped) near2 (divalent or	US-PGPUB;	10:18
		beryllium or magnesium or calcium or	EPO; JPO;	
		strontium r barium r be or mg or ca or sr	DERWENT;	
	4-	or ba)	IBM_TDB	
•	15	(silic n adj ( xide or dioxide)) near3 (dope	USPAT;	2003/06/05
		or doping r dop d) near3 (divalent or	US-PGPUB;	10:24
		b ryllium r magnesium or calcium or	EPO; JPO;	
		strontium or barium or be or mg or ca or sr	DERWENT;	
		or ba)	IBM_TDB	

-		I	1	
, '	0	barri r near3 (silic n adj (oxide or dioxide))	USPAT;	2003/06/05
		near3 (d pe or d ping or doped) near3	US-PGPUB;	10:25
		(divalent or b ryllium or magnesium or	EPO; JPO;	
		calcium or strontium or barium or be or mg	DERWENT;	
		or ca or sr or ba)	IBM_TDB	
-	0	barrier near5 (silicon adj (oxide or dioxide))	USPAT;	2003/06/05
		near5 (dope or doping or doped) near5	US-PGPUB;	10:26
		(divalent or beryllium or magnesium or	EPO; JPO;	
		calcium or strontium or barium or be or mg	DERWENT;	
	_	or ca or sr or ba)	IBM_TDB	
-	1	barrier near10 ((silicon adj (oxide or	USPAT;	2003/06/05
		dioxide)) near3 (dope or doping or doped)	US-PGPUB;	10:30
		near3 (divalent or beryllium or magnesium	EPO; JPO;	
		or calcium or strontium or barium or be or	DERWENT;	
		mg or ca or sr or ba))	IBM_TDB	
-	1	barrier near10 ((silicon adj (oxide or	USPAT;	2003/06/05
		dioxide)) near5 (dope or doping or doped)	US-PGPUB;	10:31
		near5 (divalent or beryllium or magnesium	EPO; JPO;	
		or calcium or strontium or barium or be or	DERWENT;	
		mg or ca or sr or ba))	IBM_TDB	
-	1	barrier near10 ((silicon adj (oxide or	USPAT;	2003/06/05
		dioxide)) near5 (dope or doping or doped or	US-PGPUB;	10:33
		dopant) near5 (divalent or beryllium or	EPO; JPO;	
		magnesium or calcium or strontium or	DERWENT;	
		barium or be or mg or ca or sr or ba))	IBM_TDB	
-	3	barrier near20 ((silicon adj (oxide or	USPAT;	2003/06/05
		dioxide)) near5 (dope or doping or doped or	US-PGPUB;	10:35
		dopant) near5 (divalent or beryllium or	EPO; JPO;	
		magnesium or calcium or strontium or	DERWENT;	
		barium or be or mg or ca or sr or ba))	IBM_TDB	
-	3	barrier same ((silicon adj (oxide or dioxide))	USPAT;	2003/06/05
		near5 (dope or doping or doped or dopant)	US-PGPUB;	10:39
		near5 (divalent or beryllium or magnesium	EPO; JPO;	
		or calcium or strontium or barium or be or	DERWENT;	
	9	mg or ca or sr or ba))	IBM_TDB	
-	9	barrier same ((silicon adj (oxide or dioxide))	USPAT;	2003/06/05
		near10 (dope or doping or doped or dopant)	US-PGPUB;	10:41
		near10 (divalent or beryllium or magnesium	EPO; JPO;	
		or calcium or strontium or barium or be or	DERWENT;	
		mg or ca or sr or ba))	IBM_TDB	
_	7	((silicon adj (oxide or dioxide)) near5 (dope	USPAT;	2003/06/05
		or doping or doped or dopant) near5	US-PGPUB;	10:45
		(divalent or beryllium or magnesium or	EPO; JPO;	
		( around at mary mann or magnessam or		
		calcium or strontium or barium or be or mg	DERWENT;	
		•	DERWENT; IBM_TDB	
-	2	calcium or strontium or barium or be or mg	1 ' 1	2003/06/05
-	2	calcium or strontium or barium or be or mg or ca or sr or ba)).clm. ((silicon adj (oxide or dioxide)) near5 (dope	IBM_TDB USPAT;	2003/06/05 10:47
-	2	calcium or strontium or barium or be or mg or ca or sr or ba)).clm. ((silicon adj (oxide or dioxide)) near5 (dope or d ping r doped or dopant) near5	IBM_TDB USPAT; US-PGPUB;	
-	2	calcium or strontium or barium or be or mg or ca or sr or ba)).clm. ((silicon adj (oxide or dioxide)) near5 (dope or d ping r doped or dopant) near5 (divalent r b ryllium r magnesium or	IBM_TDB USPAT; US-PGPUB; EPO; JPO;	
-	2	calcium or strontium or barium or be or mg or ca or sr or ba)).clm. ((silicon adj (oxide or dioxide)) near5 (dope or d ping r doped or dopant) near5	IBM_TDB USPAT; US-PGPUB;	

Γ	· · · · · · · · · · · · · · · · · · ·			<del></del>
-	6	((silic n adj (oxid r di xid )) n ar10	USPAT;	2003/06/05
		(dope r doping r dop d or d pant) near10	US-PGPUB;	10:52
		(divalent r beryllium or magnesium r	EPO; JPO;	
		calcium or strontium or barium or be or mg	DERWENT;	
	45.5	or ca or sr or ba)).clm. and barrier.clm.	IBM_TDB	
-	104	((dielectric adj layer) same (copper near2	USPAT;	2003/06/05
		layer) same (barrier adj layer)).clm.	US-PGPUB;	10:54
İ			EPO; JPO;	
			DERWENT;	ĺ
	66		IBM_TDB	
-	66	(((insulating or dielectric) adj layer) near10	USPAT;	2003/06/05
		(copper near2 layer) near10 (barrier adj	US-PGPUB;	10:55
		layer)).clm.	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	1	(((insulating or dielectric) adj layer) near10	USPAT;	2003/06/05
İ		(copper near2 layer) near10 (barrier adj	US-PGPUB;	10:58
		layer)).clm. and (beryllium or magnasium or	EPO; JPO;	
		calcium or barium or strontium or be or mg	DERWENT;	
		or ca or ba or sr or divalent).clm.	IBM_TDB	5000/00/07
-	0	(((insulating or dielectric) adj layer) near10	USPAT;	2003/06/05
		(copper near2 layer) near10 (barrier adj	US-PGPUB;	10:58
		layer)).clm. and (barrier same (beryllium or	EPO; JPO;	
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
	o	divalent)).clm.	HODAT	0000/00/05
-	•	(((insulating or dielectric) adj layer) same	USPAT;	2003/06/05
		(copper near2 layer) same (barrier adj layer)).clm. and (barrier near10 (beryllium	US-PGPUB;	10:59
		or magnasium or calcium or barium or	EPO; JPO; DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent)).clm.	IBM_IDB	
_	61	(((insulating or dielectric) adj layer) same	USPAT;	2003/06/05
	"	(copper near2 layer) same (barrier adj	US-PGPUB;	11:00
		layer)) and (barrier near10 (beryllium or	EPO; JPO;	11.00
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent))	15156	
•	16	(((insulating or dielectric) adj layer) same	USPAT;	2003/06/05
		(copper near2 layer) same (barrier adj	US-PGPUB;	11:03
		layer)) and (barrier near5 (beryllium or	EPO; JPO;	
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent))		
	14	((((insulating or dielectric) adj layer) same	USPAT;	2003/06/05
		(copp r near2 lay r) same (barrier adj	US-PGPUB;	11:04
		layer)) and (barri r near5 (beryllium or	EPO; JPO;	
		magnasium or calcium r barium r	DERWENT;	
		strontium or be or mg r ca or bar sr or	IBM_TDB	
		divalent))) and copp r.clm.		
<u> </u>		,,,	L	L

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Γ_	0	((((insulating or di lectric) adj layer) sam	USPAT;	2003/06/05
		(copper near2 layer) same (barri r adj	,	
		1	US-PGPUB;	11:07
		layer)) and (barrier near5 (beryllium r	EPO; JPO;	İ
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent))) and (cu or copper).clm. and		
		barrier.clm. and (dielectric or		
		insulating).clm. and (silicon near5 (oxide or		
		dioxide) near5 (be or mg or ca or sr or ba or		
		beryllium or magnesium or strontium or		
		barium or calcium or divalent)).clm.		
-	0	((((insulating or dielectric) adj layer) same	USPAT;	2003/06/05
		(copper near2 layer) same (barrier adj	US-PGPUB;	11:08
	İ	layer)) and (barrier near5 (beryllium or	EPO; JPO;	
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM TDB	
		divalent))) and (cu or copper).clm. and		
		barrier.clm. and (dielectric or		
		insulating).clm. and (silicon near10 (oxide		
		or dioxide) near10 (be or mg or ca or sr or		
		ba or beryllium or magnesium or strontium		
		or barium or calcium or divalent)).clm.		
-	0	((((insulating or dielectric) adj layer) same	USPAT;	2003/06/05
		(copper near2 layer) same (barrier adj	US-PGPUB;	11:08
		layer)) and (barrier near5 (beryllium or	EPO; JPO;	
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent))) and (cu or copper).clm. and		
		barrier.clm. and (dielectric or		
		insulating).clm. and (silicon same (oxide or		
		dioxide) same (be or mg or ca or sr or ba or		
		beryllium or magnesium or strontium or		
		barium or calcium or divalent)).clm.		
à	12	((((insulating or dielectric) adj layer) same	USPAT;	2003/06/05
		(copper near2 layer) same (barrier adj	US-PGPUB;	11:09
		layer)) and (barrier near5 (beryllium or	EPO; JPO;	
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent))) and (cu or copper).clm. and		
		barrier.clm. and (dielectric or		
		•		
		insulating).clm. and (silicon same (oxide or		
		dioxide) same (be or mg or ca or sr or ba or		
		beryllium or magnesium or strontium or		
		barium or calcium or divalent))		

			1	
-	7	(((((insulating or di lectric) adj layer) same	USPAT;	2003/06/05
		(c pp r near2 layer) same (barrier adj	US-PGPUB;	11:09
		layer)) and (barrier near5 (beryllium or	EPO; JPO;	
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent))) and (cu or copper).clm. and		
		barrier.clm. and (dielectric or		
		insulating).clm. and (be or mg or ca or sr or		
		ba or beryllium or magnesium or strontium		
		or barium or calcium or divalent).clm.) and		
		(cu or copper).clm. and barrier.clm. and		
		(dielectric or insulating).clm. and (silicon		
		same (oxide or dioxide) same (be or mg or		
		ca or sr or ba or beryllium or magnesium or		
		strontium or barium or calcium or divalent))		
	7		HEDAT.	2003/06/05
•	•	(((((insulating or dielectric) adj layer) same	USPAT;	
	İ	(copper near2 layer) same (barrier adj	US-PGPUB;	11:10
		layer)) and (barrier near5 (beryllium or	EPO; JPO;	
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent))) and (cu or copper).clm. and		
		barrier.clm. and (dielectric or		
		insulating).clm. and (be or mg or ca or sr or		
	1	ba or beryllium or magnesium or strontium		
		or barium or calcium or divalent).clm.) and		
		(cu or copper).clm. and barrier.clm. and		
		(dielectric or insulating).clm. and (silicon		
		near10 (oxide or dioxide) near10 (be or mg		
		or ca or sr or ba or beryllium or magnesium		i
		or strontium or barium or calcium or		
		divalent))		
-	0	(((((insulating or dielectric) adj layer) same	USPAT;	2003/06/05
		(copper near2 layer) same (barrier adj	US-PGPUB;	11:10
		layer)) and (barrier near5 (beryllium or	EPO; JPO;	
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent))) and (cu or copper).clm. and		
		barrier.clm. and (dielectric or		
		insulating).clm. and (be or mg or ca or sr or		
		ba or beryllium or magnesium or strontium		
		or barium or calcium or divalent).clm.) and		
		(cu or copper).clm. and barrier.clm. and		
		(dielectric or insulating).clm. and (silicon		
		near5 (oxide or dioxide) near5 (be or mg or		
		ca or sr or ba or beryllium or magnesium or		
		strontium r barium or calcium r dival nt))		

	0	(((((insulating or dielectric) adj lay r) same	USPAT;	2003/06/05
-		(c pper near2 layer) same (barrier adj	US-PGPUB;	11:10
		1		11.10
		lay r)) and (barrier near5 (b ryllium or	EPO; JPO;	
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent))) and (cu or copper).clm. and		
		barrier.clm. and (dielectric or		
		insulating).clm. and (be or mg or ca or sr or		
		ba or beryllium or magnesium or strontium		
		or barium or calcium or divalent).clm.) and		
		(cu or copper).clm. and barrier.clm. and		
		(dielectric or insulating).clm. and (silicon		
		near7 (oxide or dioxide) near7 (be or mg or		
		ca or sr or ba or beryllium or magnesium or		
		strontium or barium or calcium or divalent))		
-	7	(((((insulating or dielectric) adj layer) same	USPAT;	2003/06/05
		(copper near2 layer) same (barrier adj	US-PGPUB;	11:11
		layer)) and (barrier near5 (beryllium or	EPO; JPO;	
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent))) and (cu or copper).clm. and		
		barrier.clm. and (dielectric or		
		insulating).clm. and (be or mg or ca or sr or		
		ba or beryllium or magnesium or strontium		
		or barium or calcium or divalent).clm.) and		
		(cu or copper).clm. and barrier.clm. and		
		(dielectric or insulating).clm. and (silicon		
		near8 (oxide or dioxide) near8 (be or mg or		
		ca or sr or ba or beryllium or magnesium or		
		strontium or barium or calcium or divalent))		
_	5	((((((insulating or dielectric) adj layer) same	USPAT;	2003/06/05
		(copper near2 layer) same (barrier adj	US-PGPUB;	11:12
		layer)) and (barrier near5 (beryllium or	EPO; JPO;	11112
		magnasium or calcium or barium or	DERWENT;	
		strontium or be or mg or ca or ba or sr or	IBM_TDB	
		divalent))) and (cu or copper).clm. and	10111_100	
		barrier.clm. and (dielectric or		
		•		
		insulating).clm. and (be or mg or ca or sr or		
		ba or beryllium or magnesium or strontium		
		or barium or calcium or divalent).clm.) and		
		(method or process).clm.) and (cu or		
		copper).clm. and barrier.clm. and (dielectric		
		or insulating).clm. and (silicon near8 (oxide		
		or dioxide) near8 (be or mg or ca or sr or ba		
		or beryllium or magnesium or strontium or		
		barium or calcium or divalent))		
-	71	((copper near2 layer).clm. near20	USPAT;	2003/06/05
		((di I ctric or insulating) adj lay r).clm.	US-PGPUB;	11:23
		near20 (barri r adj layer).clm.).clm.	EPO; JPO;	
			DERWENT;	
			IBM_TDB	

	т			
•	0	(((copper near2 layer).clm. near20	USPAT;	2003/06/05
		((dielectric or insulating) adj lay r). lm.	US-PGPUB;	11:17
		near20 (barrier adj layer).clm.).clm.) and	EPO; JPO;	
		(semiconductor near10 (oxide or dioxide)	DERWENT;	
		near10 (dope or doping or doped or dopant)	IBM_TDB	
		near10 (beryllium or calcium or magnesium		
		or strontium or barium or be or ca or mg or		
		sr or ba or divalent))		
-	0	(((copper near2 layer).clm. near20	USPAT;	2003/06/05
		((dielectric or insulating) adj layer).clm.	US-PGPUB;	11:18
		near20 (barrier adj layer).clm.).clm.) and	EPO; JPO;	
		(silicon near10 (oxide or dioxide) near10	DERWENT;	
		(dope or doping or doped or dopant) near10	IBM_TDB	
		(beryllium or calcium or magnesium or		
		strontium or barium or be or ca or mg or sr		
		or ba or divalent))		
-	0	(((copper near2 layer).clm. near20	USPAT;	2003/06/05
		((dielectric or insulating) adj layer).clm.	US-PGPUB;	11:19
		near20 (barrier adj layer).clm.).clm.) and	EPO; JPO;	
		(silicon same (oxide or dioxide) same (dope	DERWENT;	
		or doping or doped or dopant) same	IBM_TDB	
		(beryllium or calcium or magnesium or		
		strontium or barium or be or ca or mg or sr		
		or ba or divalent))		
-	0	(((copper near2 layer).clm. near20	USPAT;	2003/06/05
		((dielectric or insulating) adj layer).clm.	US-PGPUB;	11:21
		near20 (barrier adj layer).clm.).clm.) and	EPO; JPO;	
		((si or silicon) same (oxide or dioxide) same	DERWENT;	
		(dope or doping or doped or dopant) same	IBM_TDB	
		(beryllium or calcium or magnesium or		
		strontium or barium or be or ca or mg or sr		
	400	or ba or divalent))		
-	130	((copper near2 layer).clm. same ((dielectric	USPAT;	2003/06/05
		or insulating) adj layer).clm. same (barrier	US-PGPUB;	11:20
		adj layer).clm.	EPO; JPO;	
			DERWENT;	
	_		IBM_TDB	
-	0	(((copper near2 layer).clm. same ((dielectric	USPAT;	2003/06/05
		or insulating) adj layer).clm. same (barrier	US-PGPUB;	11:22
		adj layer).clm.).clm.) and ((si or silicon)	EPO; JPO;	
,		same (oxide or dioxide) same (dope or	DERWENT;	
		doping or doped or dopant) same (beryllium	IBM_TDB	
		or calcium or magnesium or strontium or		
		barium or be or ca or mg or sr or ba or		
		divalent))	1100-	2002/22/27
-	0	(((c pper near2 layer).clm. near20	USPAT;	2003/06/05
		((di lectric r insulating) adj layer).clm.	US-PGPUB;	11:23
		near20 (barrier adj layer).clm.).clm.) and	EPO; JPO;	
		(((si or silicon) adj (oxide r dioxid )) same	DERWENT;	
		(beryllium r calcium r magnesium or	IBM_TDB	
		strontium r barium or be or carmg or sr		·
		or ba or divalent))		

-	0	(((c pp r near2 layer).clm. same ((diel ctric	USPAT;	2003/06/05
		or insulating) adj layer).clm. same (barrier	US-PGPUB;	11:23
		adj layer).clm.).clm.) and (((si or silicon) adj	EPO; JPO;	
		(oxide or dioxide)) same (beryllium or	DERWENT;	
		calcium or magnesium or strontium or	IBM_TDB	
		barium or be or ca or mg or sr or ba or		
ŀ		divalent))		
-	34	((copper near2 layer).clm. near20	USPAT;	2003/06/05
		((dielectric or insulating) adj layer).clm.	US-PGPUB;	11:24
		near20 (barrier adj layer).clm.).clm. and	EPO; JPO;	
		(beryllium or barium or calcium or	DERWENT;	
		strontium or magnesium or be or ba or ca or	IBM_TDB	
		sr or mg or divalent)		
-	1	((copper near2 layer).clm. near20	USPAT;	2003/06/05
		((dielectric or insulating) adj layer).clm.	US-PGPUB;	11:26
		near20 (barrier adj layer).clm.).clm. and	EPO; JPO;	
		(beryllium or barium or calcium or	DERWENT:	
		strontium or magnesium or be or ba or ca or	IBM TDB	
		sr or mg or divalent).clm.	_	
-	3	((copper near2 layer).clm. same ((dielectric	USPAT;	2003/06/05
		or insulating) adj layer).clm. same (barrier	US-PGPUB;	11:28
		adj layer).clm.).clm. and (beryllium or	EPO; JPO;	
		barium or calcium or strontium or	DERWENT;	
		magnesium or be or ba or ca or sr or mg or	IBM TDB	
		divalent).clm.		
				1